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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Masayuki Yasumura
Serial No.: 10/534,609
Filed : May 11, 2005
For : SWITCHING POWER SUPPLY CIRCUIT
Attention : Customer Service Center
Initial Patent Examination Division

I hereby certify that this paper is being deposited this date with the U.S. Postal Service in first class mail addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Jay H. Maioli

Jay H. Maioli
Reg. No. 27,213

Date
August 24, 20 05

August 24, 2005
1185 Avenue of the Americas
New York, NY 10036
(212) 278-0400

Letter Submitting the Notice of Transmittal of Copies of Translation of the International Preliminary Examination Report

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith is a copy of the Notice of Transmittal of Copies of Translation of the International Preliminary Examination Report.

Respectfully submitted,
Cooper & Dunham LLP

Jay H. Maioli
Jay H. Maioli
Reg. No. 27,213

File No. : 7217/71071
JHM:tb
Enc.

10/534609

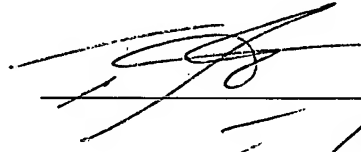
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Date of Deposit: May 11, 2005

I hereby certify that this Application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and addressed to the Commissioner for Patents, Mail Stop PCT, P.O. Box 1450, Alexandria, V.A. 22313-1450.


BODA

Applicant: Masayuki Yasumura
(7217) 71071

Title : SWITCHING POWER SUPPLY CIRCUIT

JAY H. MAIOLI
REG. NO. 27,213

Customer Number - 23432
COOPER & DUNHAM LLP
1185 Avenue of the Americas
New York, NY 10036
Tel: (212) 278-0400
Fax: (212) 391 0525

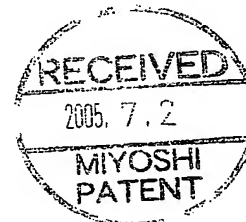
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NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rule 72.2)

From the INTERNATIONAL BUREAU

To:

NAKAMURA, Tomoyuki
c/o Miyoshi International Patent Office
Toranomon Kotohira Tower
2-8, Toranomon 1-chome
Minato-ku, Tokyo 105-0001
JAPON



Date of mailing (day/month/year) 14 July 2005 (14.07.2005)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference JSONY-488PCT	
International application No. PCT/JP2003/015236	International filing date (day/month/year) 28 November 2003 (28.11.2003)
Applicant SONY CORPORATION et al	

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

CN, KR

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

US

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Yoshiko Kuwahara
Facsimile No.+41 22 740 14 35	Facsimile No.+41 22 338 90 90

Translation

Rec'd PCT/PTO 26 AUG 2005

PCT/IP2003/015236

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference JSONY-488PCT	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/015236	International filing date (day/month/year) 28 November 2003 (28.11.2003)	Priority date (day/month/year) 29 November 2002 (29.11.2002)
International Patent Classification (IPC) or national classification and IPC H02M 3/28		
Applicant SONY CORPORATION		

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>7</u> sheets, as follows:</p> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>	
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>	

Date of submission of the demand 13 April 2004 (13.04.2004)	Date of completion of this report 07 January 2005 (07.01.2005)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/015236

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):

- ☐ The international application as originally filed/furnished
- ☒ the description:
- pages _____ 1-80 _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☒ the claims:
- pages _____ 4,8,9 _____, as originally filed/furnished
- pages* _____ 3 _____, as amended (together with any statement) under Article 19
- pages* _____ 5-7 _____ received by this Authority on 13 August 2004 (13.08.2004)
- pages* _____ received by this Authority on _____
- ☒ the drawings:
- pages _____ 1-32 _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☒ the claims, Nos. _____ 1,2 _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (specify): _____
- ☐ any table(s) related to sequence listing (specify): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (specify): _____
- ☐ any table(s) related to sequence listing (specify): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	3-9	YES
	Claims		NO
Inventive step (IS)	Claims	3-9	YES
	Claims		NO
Industrial applicability (IA)	Claims	3-9	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP, 8-37778, A (Sony Corp.), 6 February, 1996 (06.02.96).

Document 2: JP, 8-103078, A (Sony Corp.), 16 April, 1996 (16.04.96)

Document 3: JP, 2002-34249, A (Sony Corp.), 31 January, 2002 (31.01.02)

Document 4: JP, 8-289553, A (Sony Corp.), 1 November, 1996 (01.11.96)

Document 5: EP, 1172924, A2 (Sony Corp.), 16 January, 2002 (16.01.02)

The subject matters of claims 3-9 appear to involve an inventive step in view of the documents cited in the ISR.

Documents 1-5 do not describe a switching power-supply circuit provided with a rectifying and smoothing means having (a) a plurality of low-frequency rectifier elements that rectify input alternating voltages in each of positive and negative cycles, and (b) a smoothing capacitor to smooth the voltage rectified by the said frequency rectifier elements, wherein the said rectifying and smoothing means has a plurality of high-frequency rectifiers to perform switching operation in each of the positive and negative cycles of higher alternating voltages than the input alternating voltages, excited by a primary winding for power-factor improvement connected in series with a secondary winding for power-factor improvement, and such switching power-supply circuit would not be obvious to even a person skilled in the art.